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SOURCE

Radiotekhnika: Transportnaya Svyaz', 2d Revised Edition, Trans-
zheldorizdat (State Publishing House for Railroad Literature),
322 pp, 1950, [redacted]

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DIGEST AND TABLE OF CONTENTS OF P. N. RAMLAU'S BOOK,
"RADIO ENGINEERING: TRANSPORTATION COMMUNICATIONS"

This book was approved by the Ministry of Higher Education USSR as a text-
book for Railroad Transportation Institutes for the special course "Communica-
tions, Automatics, and Telemechanics."

Edited by Engr V. I. Lapshin, the book describes radio engineering funda-
mentals, transmitters and receivers, and principles of television and radar.
For the needs of railroad transportation, particular attention is paid to super-
high frequencies, and pulse techniques, pertinent radio devices, and the working
principles of the Type ZhR-1 radio station for locomotives.

The historical outline gives the names of Russian scientists and the spe-
cific problems in radio engineering in which they have worked. Among the achieve-
ments mentioned are: the magnetron; feeding energy to antennas or receivers by
means of two-wire or concentric feeders; use of wave guides; theory of propaga-
tion of ultrashort waves and of ultrashort-wave receivers; passage of signals
through a circuit with a limited frequency band and the theory of pulse signal
reception; and reduction of fading in telegraphic signal reception.

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